

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|---------|------------------|
| L1 | 1 | 10/693429.app. | US-PPGUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2012/03/14 08:27 |
| L2 | 12 | (“20030125040” “20030235147” “20040042439” “20040042556” “6731668”).PN. or (“20030125040” “20030235147” “20040042439” “20040042556” “6731668”).FN. or (“4750198” “5509003” “5982327” “6351499” “6363267”).PN. or (“20020163879” “7008464”).PN. | US-PPGUB; USPAT | ADJ | ON | 2012/03/14 08:30 |
| L3 | 26 | (“20030202492” “20040176097” “20050208959” “20060183497” “6697346” “6952426” “7298508” “7292854”).PN. or (“20020122393” “20040037257” “20040047292” “4797879” “5404355” “5506861” “5638369” “5677909” “5729542” “5959965” “6049548” “6314113” “6330293” “6333953” “67335188” “6879579” “6920194”).PN. or (“5867539”).PN. | US-PPGUB; USPAT | ADJ | ON | 2012/03/14 08:34 |
| L4 | 35 | (“20020193146” “6330462” “6532255” “6636568” “6868079” “6956813” “6980800” “7190749” “7453944”).PN. or (“7023826” “7548506” “7551546”).PN. or (“20030123389” “6144711” “6292917” “6298092” “6654613” “6693992” “6760313” “6801790” “6847828” “6862271” “6888899” “6950632” “6956906” “6996380” “7020482” “7020490” “7116652” “7120199” “7149239” “7158563” “7242727” “7260153” “7392014”).PN. | US-PPGUB; USPAT | ADJ | ON | 2012/03/14 08:35 |
| L5 | 63 | (“20030112745” “20030123389” “20030206121” “20040156328” “20060077935” “6144711” “6292917” “6298092” “6594473” “6654613” “6693992” “6760313” “6792041” “6801790” “6847828” “6888899” “6920192” “6950632” “6956906” “6996380” “7020482” “7020490” “7103325” “7116652” “7120199” “7133459” “7149239” “7158563” “7242727” “7260153” “7260366” “7308035” “7327800” “7392014” “7573805”).PN. or (“20010031621” “20020071445” | US-PPGUB; USPAT | ADJ | ON | 2012/03/14 08:35 |

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| | | ["20020126803" "20020132600" "20030043887" "20030060173" "20030076797" "20030086514" "20030092456" "20030126681" "20030128658" "20030147371" "20030153320" "20030157953" "20030161282" "20030165189" "6141388" "6532225" "6760882" "6847828" "6940917" "7035359" "7095709" "7164669" "7244884" "7283508" "7551580").PN. | | | | |
| L6 | 2 | ("20030119452" "7480278").PN. | US-PGPUB; USPAT | OR | ON | 2012/03/14 08:36 |
| L7 | 126 | ("20030119452" "7480278").PN. or ("20020018310" "20020018453" "20020041632" "20020044591" "20020057659" "20020080735" "20020085620" "20020085641" "20020098872" "20020105928" "20020115473" "20020122381" "20020147953" "20020181390" "20020183010" "20020196842" "20030002450" "20030048856" "20030078024" "20030095197" "20030099306" "20030139194" "20030153360" "20030157954" "20030162519" "20030206558" "20030235149" "20030235255" "20040085939" "20040087324" "20040179827" "20040198276" "20050047384" "200501111599" "20050128953" "20060104196" "20070177681" "5232818" "5241544" "5295159" "5471647" "5606729" "5867478" "5886988" "6084915" "6131016" "6141567" "6167031" "6178196" "6266528" "6278726" "6298035" "6308080" "6314289" "6393999" "6346910" "6348036" "6377812" "6385264" "6452981" "6473467" "6532562" "6574211" "6574271" "6594798" "6608874" "6611231" "6615024" "6668161" "6683916" "6690660" "6738020" "6751187" "6751444" "6751480" "6760388" "6771706" "6785341" "6788948" "6795424" "6802035" "6850498" "6859503" "6873651" "6879578" "6885708" "6888809" "6937592" "6963742" "6965762" "6985434" "0654590" "7031671" "7062294" "7072381" "7072410" "7072413" "7088671" "7099377" "7110378" "7110463" "7113499" "7149254" "7155171" "7187646" "7197084" "7200404" "7206354" "7218684" "7224704" "7231184" "7233625" "7248638" "7254171" "7263119" "7280625" "7289570" "7298778" "7317750" "7342912" "7386076" "7403748" "7421039" "7606296").PN. | US-PGPUB; USPAT | OR | ON | 2012/03/14 08:36 |
| L8 | 46 | ("20010046205" "20020003774" | US-PGPUB; USPAT | OR | ON | 2012/03/14 |

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| | | "20020064214" "20020184453" "20020191535" "20030012308" "20030128656" "20040071104" "20040136349" "20040160987" "20050120097" "20080285670" "5818813" "5973638" "6097771" "6115354" "6141542" "6317612" "6345036" "6492942" "6545997" "6597682" "6728233" "6990059" "6992972" "7009931" "7068628" "7492737" "7623871").PN. or ("20020072336" "20020127978" "20040052228" "20080285488" "20080285669" "20100183088" "20100260060" "5832387" "6163296" "6862440" "6987819" "7012978" "7095709" "7298805" "7324429" "7636573" "7653415").PN. | USPAT | | 08:37 | |
| L9 | 91 | ("20010017881" "20030045288" "20030076812" "20040050587" "20040071107" "20050099974" "20060072649" "20060153237" "20070086536" "20070274278" "4736371" "5493712" "6275543" "6515617" "6574267" "6636496" "6757263" "6804191" "6850252" "6952454" "7194237" "7356089" "7603141" "7653142").PN. or ("20020027951" "20020044610" "20020075830" "20030003863" "20030039317" "20030185311" "20040076224" "20040120411" "20040151108" "20040151122" "20040184398" "20040252632" "20050047515" "20050135284" "20050135295" "20050135318" "20050147177" "20050185575" "20050220211" "20050276343" "20060018395" "20060067417" "20060159120" "20060209894" "20060209937" "20080069015" "20080267098" "20080267138" "20100067401" "20100119001" "5479447" "5790550" "5822374" "6072779" "6122247" "6205410" "6222888" "6330277" "6426371" "6463290" "6478422" "6510184" "6631121" "6744811" "6768727" "6798738" "6821535" "6891858" "6927728" "6959171" "6980601" "6985534" "7003044" "7006848" "7039125" "7058367" "7127009" "7130362" "7137047" "7184713" "7191381" "7274734" "7333556" "7356004" "7379492" "7508748" "7599443").PN. | US-PGPUB; USPAT | OR | ON | 2012/03/14 08:37 |
| L10 | 3 | ("20020062472" "20060104340" "6369758").PN. | US-PGPUB; USPAT | OR | ON | 2012/03/14 08:37 |
| L11 | 150 | ((J) near2 (WALTON)).INV. | USPAT; USOCR | ADJ | ON | 2012/03/14 08:38 |
| L12 | 325 | ((MARK) near2 (WALLACE)).INV. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:38 |

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| L13 | 195 | ((JOHN) near2 (KETCHUM)).INV. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:38 |
| L14 | 399 | ((STEVEN) near2 (HOWARD)).INV. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:38 |
| L15 | 28 | (("20010046205") or ("20020003774") or ("20020064214") or ("20020184453") or ("20020191535") or ("20030012308") or ("20030128656") or ("20040071104") or ("20040136349") or ("20050120097") or ("20080285670") or ("5818813") or ("5973638") or ("6097771") or ("6115354") or ("6141542") or ("6317612") or ("6345036") or ("6492942") or ("6545997") or ("6597682") or ("6728233") or ("6990059") or ("6992972") or ("7009931") or ("7068628") or ("7492737") or ("7623871")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2012/03/14 08:49 |
| L16 | 29 | (("20010046205") or ("20020003774") or ("20020064214") or ("20020184453") or ("20020191535") or ("20030012308") or ("20030128656") or ("20040071104") or ("20040136349") or ("20040160987") or ("20050120097") or ("20080285670") or ("5818813") or ("5973638") or ("6097771") or ("6115354") or ("6141542") or ("6317612") or ("6345036") or ("6492942") or ("6545997") or ("6597682") or ("6728233") or ("6990059") or ("6992972") or ("7009931") or ("7068628") or ("7492737") or ("7623871")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2012/03/14 08:50 |
| L17 | 69 | (l11 or l12 or l13 or l14) and pilot same estimat\$4 near channel same (forward or downlink or random) with channel | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:56 |
| L18 | 25 | (l11 or l12 or l13 or l14) and pilot same estimat\$4 near channel same (forward or downlink or random) with channel and @AD<= "20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:57 |
| L19 | 3 | (l11 or l12 or l13 or l14) and pilot same estimat\$4 near channel same (forward or downlink or random) with channel and @AD<= "20031030" and MIMO and (L2 or l3 or l4 or l5) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:57 |
| L20 | 9 | (l11 or l12 or l13 or l14) and pilot same estimat\$4 near channel same (forward or downlink or random) with channel and @AD<= "20031030" and MIMO and (L6 or l7 or l8 or l9 or l10) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:58 |
| L21 | 38 | pilot same estimat\$4 near channel and @AD<= "20031030" and MIMO and (L6 or l7 or l8 or l9 or l10) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:58 |
| L22 | 17 | pilot same estimat\$4 near channel and @AD<= "20031030" and MIMO and (L2 or l3 or l4 or l5) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:58 |
| L23 | 54 | (l21 or l22) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 08:59 |
| L24 | 35 | pilot with (broadcast\$4 or channel with estimat\$4) and (random access with channel or RACH) same (SIMO or beam\$4 with steer\$ or beam-steer\$) same (rate or spatial or antennas or output) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:04 |

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| L25 | 7 | pilot with (channel near3 estimat\$) same (forward or broadcast\$4 or downlink) with channel and (random access with channel or RACH) and (OFDM\$1 or MIMO or SIMO or spatial process\$4 or beam-steer\$4 or beamsteer\$4) and @AD<="20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:04 |
| L26 | 30 | pilot with (channel near3 estimat\$) and (forward or broadcast\$4 or downlink) with channel and (random access with channel or RACH) and (OFDM\$1 or MIMO or SIMO or spatial process\$4 or beam-steer\$4 or beamsteer\$4) and @AD<="20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:05 |
| L27 | 10 | pilot same (channel near3 estimat\$) same (forward or broadcast\$4 or downlink) with channel and (random access with channel or RACH) and (OFDM\$1 or MIMO or SIMO or spatial process\$4 or beam-steer\$4 or beamsteer\$4) and @AD<="20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:07 |
| L30 | 61 | pilot same channel with estimat\$4 and (random access with channel or RACH) same (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:10 |
| L31 | 0 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 375/276.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:10 |
| L32 | 13 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 375/299.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:11 |
| L33 | 12 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 375/346-347.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:11 |
| L34 | 53 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 370/328,338,347.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:11 |
| L35 | 5 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 370/310.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:11 |
| L36 | 17 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and 370/208-210.ccls. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:12 |
| L37 | 30 | pilot same channel with estimat\$4 and (random access with channel or RACH) and (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo) same (rate or spatial or antennas or output) and @ad<="20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:12 |

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| L38 | 47 | pilot same channel with estimat\$4 and (random access with channel or RACH) same (SIMO or beam\$4 with steer\$ or beam-steer\$ or mimo or spatial or antennas or output) and @ad<= "20031030" | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:15 |
| L39 | 8 | (US-20020163879-\$ or US-2040076224-\$ or US-2040001429-\$ or US-2040095907-\$).did. or (US-7006464-\$ or US-7551546-\$ or US-7548506-\$ or US-7106709-\$).did. | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:16 |
| L40 | 4 | pilot and (random access with channel or RACH) and l39 | US-PGPUB; USPAT | ADJ | ON | 2012/03/14 09:16 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|---------|------------------|
| L28 | 10 | pilot same (channel near3 estimat\$) same (forward or broadcast\$4 or downlink) with channel and (random access with channel or RACH) and (OFDM\$1 or MIMO or SIMO or spatial process\$4 or beam-steer\$4 or beamsteer\$4) and @AD<= "20031030" | US-PGPUB; USPAT; UPAD | ADJ | ON | 2012/03/14 09:07 |
| L29 | 7 | pilot same (channel near3 estimat\$) same (forward or broadcast\$4 or downlink) with channel and (random access with channel or RACH) same (OFDM\$1 or MIMO or SIMO or spatial process\$4 or beam-steer\$4 or beamsteer\$4) and @AD<= "20031030" | US-PGPUB; USPAT; UPAD | ADJ | ON | 2012/03/14 09:08 |

3/14/2012 9:18:10 AM